

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 77-132

WASTE DISCHARGE REQUIREMENTS FOR:

EXXON COMPANY, U.S.A., BENICIA REFINERY  
WASTE RETENTION POND, SOLANO COUNTY

The California Regional Water Quality Control Board San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Exxon Company, U.S.A. (hereinafter called the discharger), a division of Exxon Corporation, submitted a Report of Waste Discharge dated May 20, 1977, for its Benicia refinery.
2. The discharger proposes to construct a retention pond within a 25 acre (10 hectare) site at its Benicia refinery to serve as emergency storage for treated oily water from refinery operations. Water would be pumped at 2000 gallons (7.57 cubic meters) per minute into the proposed pond only when it was apparent that the plant's existing discharge to Suisun Bay would be in violation of NPDES Permit standards. The retained effluent would then be retreated prior to discharge. No domestic wastes will be discharged to the pond.
3. The Board on November 19, 1974, adopted Order No. 74-146, NPDES Permit, establishing waste discharge requirements for discharge to Suisun Bay.
4. The discharger has submitted a technical report describing the physical characteristics of the existing area and the proposed ponds. The designated pond area is shown in Illustration A of this Order.
5. There will be no hydraulic continuity between the contents of the pond and underlying groundwater.
6. The Board adopted the Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on April 8, 1975, and this Order implements the water quality objectives stated in the Basin Plan.
7. Groundwaters in the area of the discharger's facility are used for:
  - a. industrial water supply
  - b. domestic water supply
8. Land used within 1000 feet of the discharge site is used for various industrial purposes.
9. This project meets the criteria for a Class 4 exemption pursuant to Section 15102 of the California Administrative Code (State EIR Guidelines).

10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
11. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Exxon Company, U.S.A. and its successors or assigns shall comply with the following criteria:

A. Discharge Prohibitions

1. Discharge of untreated process wastewater, domestic wastewater, or contents of the designated pond to waters or groundwaters of the State is prohibited.

B. Waste Disposal Specifications

1. No domestic wastes shall be discharged to the designated pond.
2. Waste material shall be confined to the designated pond shown on Attachment "A". Wastes shall not be disposed of in such a manner that it can be carried from the disposal site and discharged into waters of the State.
3. The designated pond shall have a minimum freeboard of two feet at all times.
4. All waste material shall be removed to an approved Class I or II-1 disposal site prior to discontinuing use of the evaporation pond.
5. No waste shall be ponded in areas previously used for burial of lead-saturated materials.

C. Leachate Specifications

1. The evaporation pond shall be protected from washout or erosion, and from inundations occurring as the result of a flood having a recurrence frequency of 100 years.
2. Vertical and lateral hydraulic continuity with groundwaters shall be prevented by the presence of a natural clay barrier of at least 5 feet in thickness and a permeability of  $10^{-6}$  cm/sec or less on the bottom and sides of disposal areas. If such a natural condition does not exist, an artificial barrier shall be constructed to meet the above specifications.

D. Provisions

1. Neither the disposal nor the containment of pollutants shall create a pollution or nuisance as defined in the California Water Code.

2. The pond area shall be properly protected to deny unauthorized access and minimize public hazard.
3. The discharger shall fully comply with the terms of this Order after construction of the designated pond.
4. This Order includes items 1, 3, 5, 6, and 7 of the attached "Reporting Requirements" dated August 8, 1973.
5. This Order includes items 1, 2, 4, 5, 6, 7, 8, and 10 of the attached "Standard Provisions" dated November 20, 1974.
6. Ninety (90) days prior to discontinuing the use of this site for waste disposal the discharger shall submit a technical report to the Board describing the methods and controls to be used to assure protection of the quality of surface and groundwaters of the area during final operations and with any proposed subsequent use of the land. This report shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist. The method used to close the site and maintain protection of the quality of surface and groundwater shall comply with waste discharge requirements established by the Regional Board.
7. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge and water applied to this property during the subsequent use of the land for other purposes.
8. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
9. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on October 18, 1977.

FRED H. DIERKER  
Executive Officer

Attachments:

Attachment A (Map)  
Reporting Requirements 8/8/73  
Standard Provisions 11/20/74  
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

Exxon Company, U.S.A.

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Benicia Refinery

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Solano County

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ORDER NO. 77-132

CONSISTS OF

PART A

AND

PART B

## PART B

### DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

#### I. DESCRIPTION OF SAMPLING STATIONS

<u>Station</u>	<u>Description</u>
G-1 thru G-'n'	Groundwater monitoring wells down-gradient of pond and in fill areas along the side of the pond area.

(Note: Location and installation of G-1 thru G-'n' shall be the responsibility of the discharger and shall be subject to approval by the Board.)

#### II. SCHEDULE OF SAMPLING AND ANALYSIS

<u>Station</u>	<u>Sample Frequency</u>	<u>Analyses</u>	<u>Units</u>
a. G-1 thru G-'n'	Monthly during use	Ammonia Nitrogen	mg/l
b. "	"	Total Chromium	mg/l
c. "	"	Phenolic Compounds	mg/l
d. "	"	Zinc	mg/l

All samples shall be grab samples and analyses of those samples shall be reported to the Board by the 15th day of the month following the month when the sample was taken. At least one sample from each monitoring well shall be taken during each use of the pond.

#### III. MISCELLANEOUS REPORTING

1. Whenever residue is removed from the ponds and is taken to a Class I or II-1 disposal site, the following reports will be submitted to the Regional Board within 30 days:
  - a. After cleanout and prior to refilling the ponds, photographs shall be taken adequate to show the condition of the ponds and the maintenance and integrity of any liner.
  - b. A copy of the State liquid waste hauling report properly completed to include disposal site.

#### IV. MODIFICATION OF PART "A" DATED 7/74

- A. Exclusions: Paragraphs E.2., and E.4.
- B. Modification: Paragraph F.3.e. delete EPA submittal, submit original to Regional Board.

I, Fred H. Dierker, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in the Regional Board Order No. 77-132.
2. Has been ordered in writing by the Executive Officer on October 18, 1977, and becomes effective October 18, 1977.
3. May be reviewed at any time subsequent to the effective date upon written notice from either the Executive Officer or the discharger, and will be revised upon written agreement of the Executive Officer and the discharger.

FRED H. DIERKER  
Executive Officer

